SLEP DISORDERS



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Hypothesis



Your lifestyle will strongly determine wether you will develop a sleeping disorder or not.

Dateset



medical.csv

- Gender (male, female)
- Physical activity (0-100)
- Quality of sleep (0-10)
- BMI category (normal, overweight, obese)
- Stress level (0-10)
- Sleep disorder (yes, no)
- Heart rate (0-100)

• ...

SQL and visualizations

SQL

1 Sleep duration by BMI and age

```
SELECT bmi_category,

CASE

WHEN age >= 25 AND age < 35 THEN '25-35'

WHEN age >= 35 AND age < 45 THEN '35-45'

ELSE '45+'

END AS age_group,

round(AVG(sleep_duration),2) AS average_sleep_duration

FROM medical

WHERE bmi_category = "Normal" or bmi_category = "Overweight" or bmi_category = "Obese"

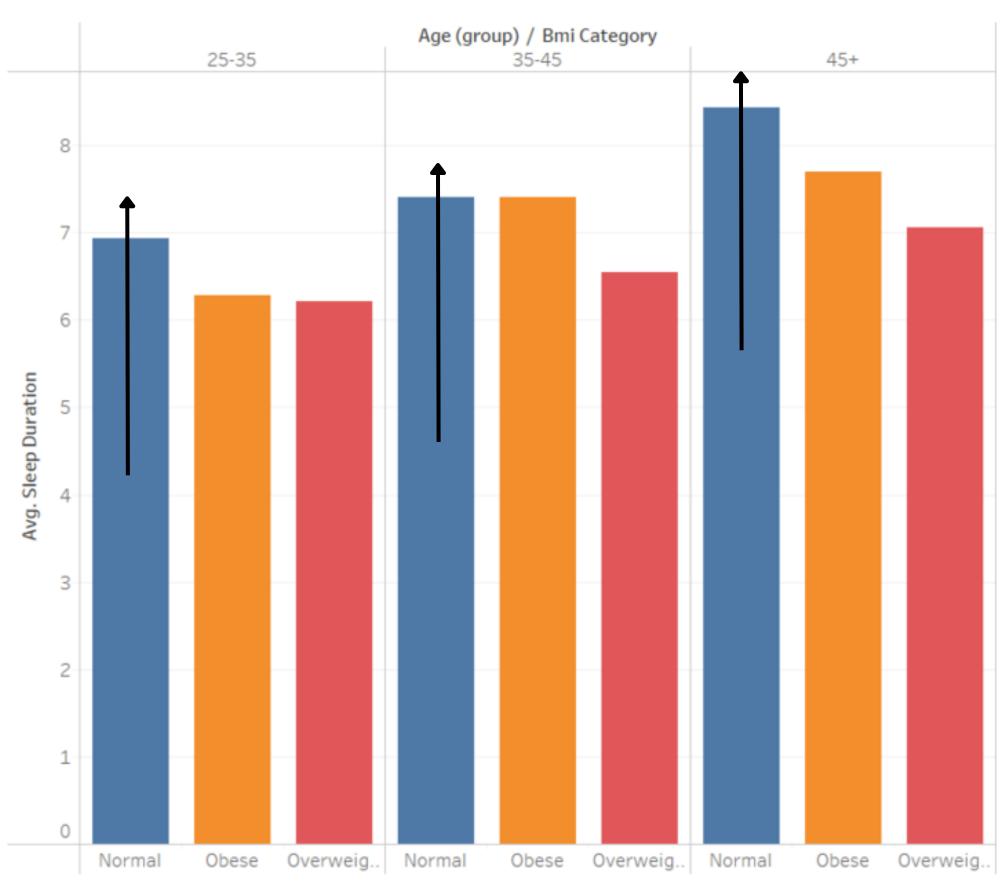
GROUP BY bmi_category, age_group;
```

	bmi_category	age_group	average_sleep_duration
•	Overweight	25-35	6.02
	Normal	25-35	6.91
	Obese	25-35	6
	Overweight	35-45	6.53
	Normal	35-45	7.39
	Obese	35-45	7.4
	Overweight	45+	6.98
	Obese	45+	7.7
	Normal	45+	8.43

Tableau

1 Sleep duration by BMI and age



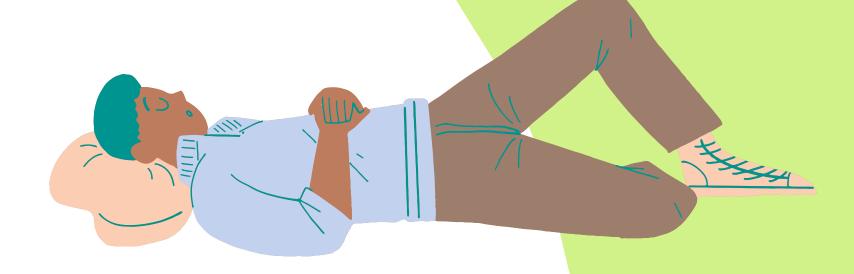


SQL

2 Quality of sleep by BMI

```
SELECT bmi_category as BMI, round (avg(quality_of_sleep),2) as Quality
FROM medical
WHERE bmi_category= "Normal" or bmi_category= "Overweight" or bmi_category= "Obese"
GROUP BY bmi_category
order by Quality desc;
```

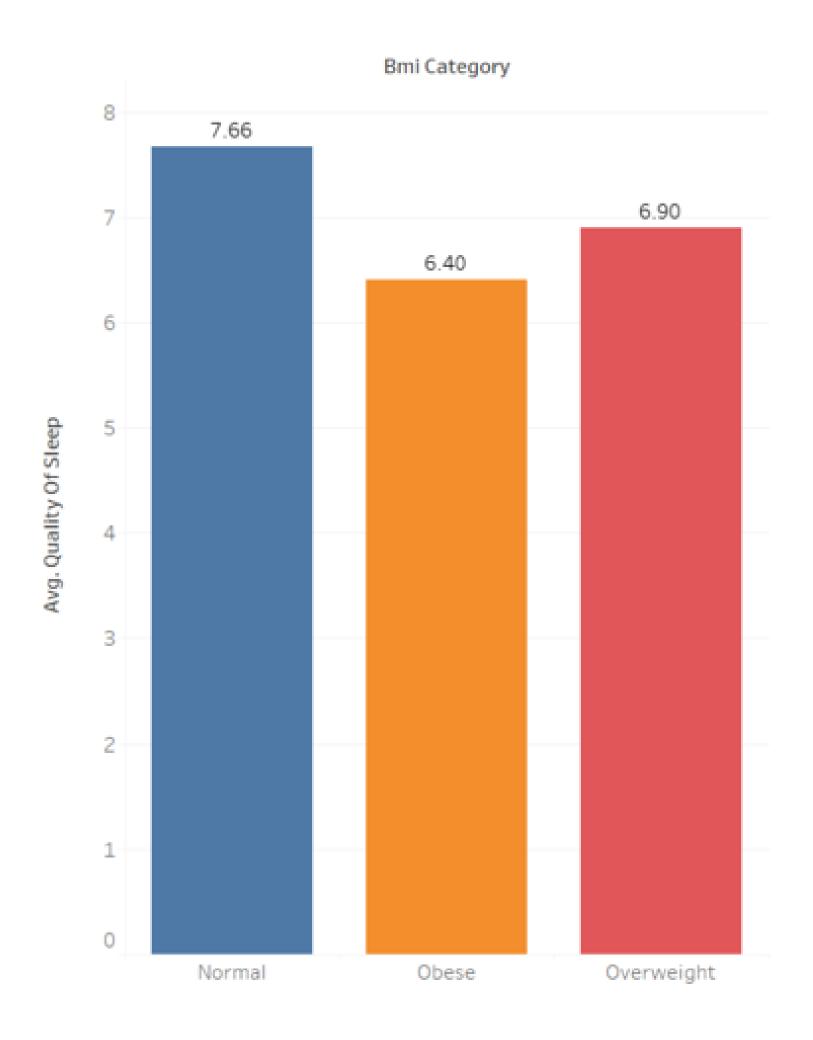
BMI	Quality
Normal	7.66
Overweight	6.90
Obese	6.40



Tableau

2 Quality of sleep by BMI



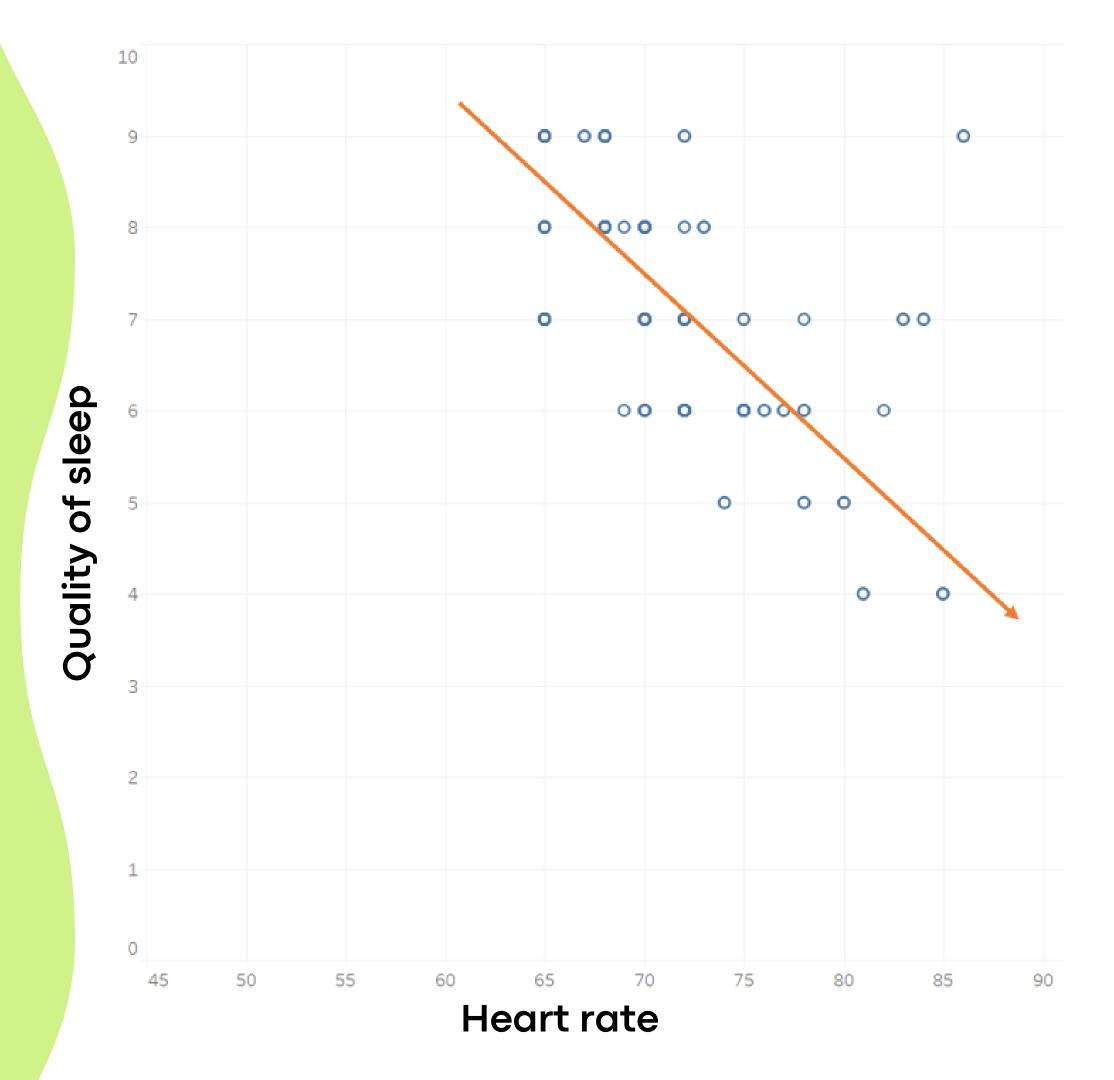


Correlations

Let's dig deep on our hypothesis!

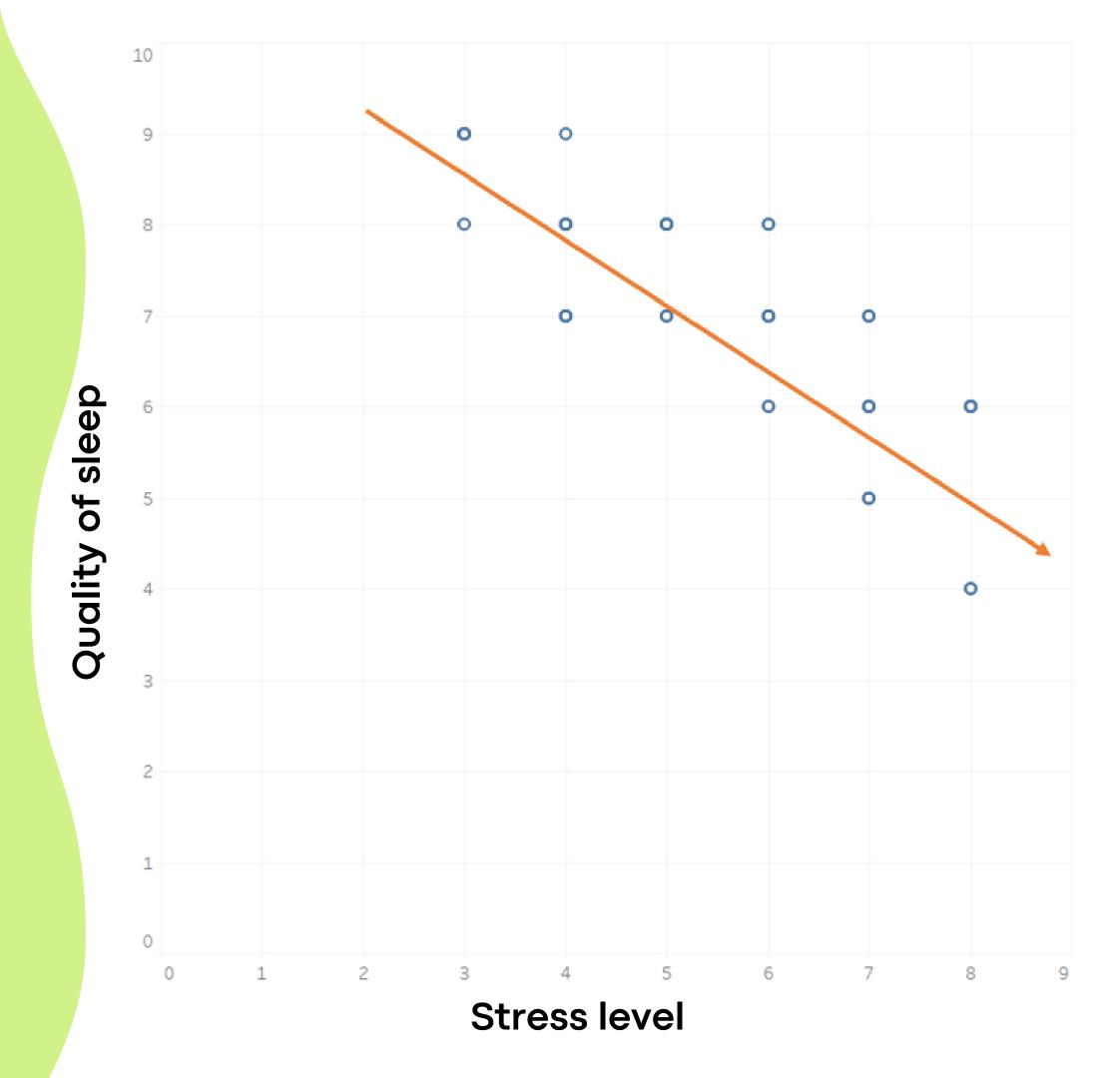
Negative correlation





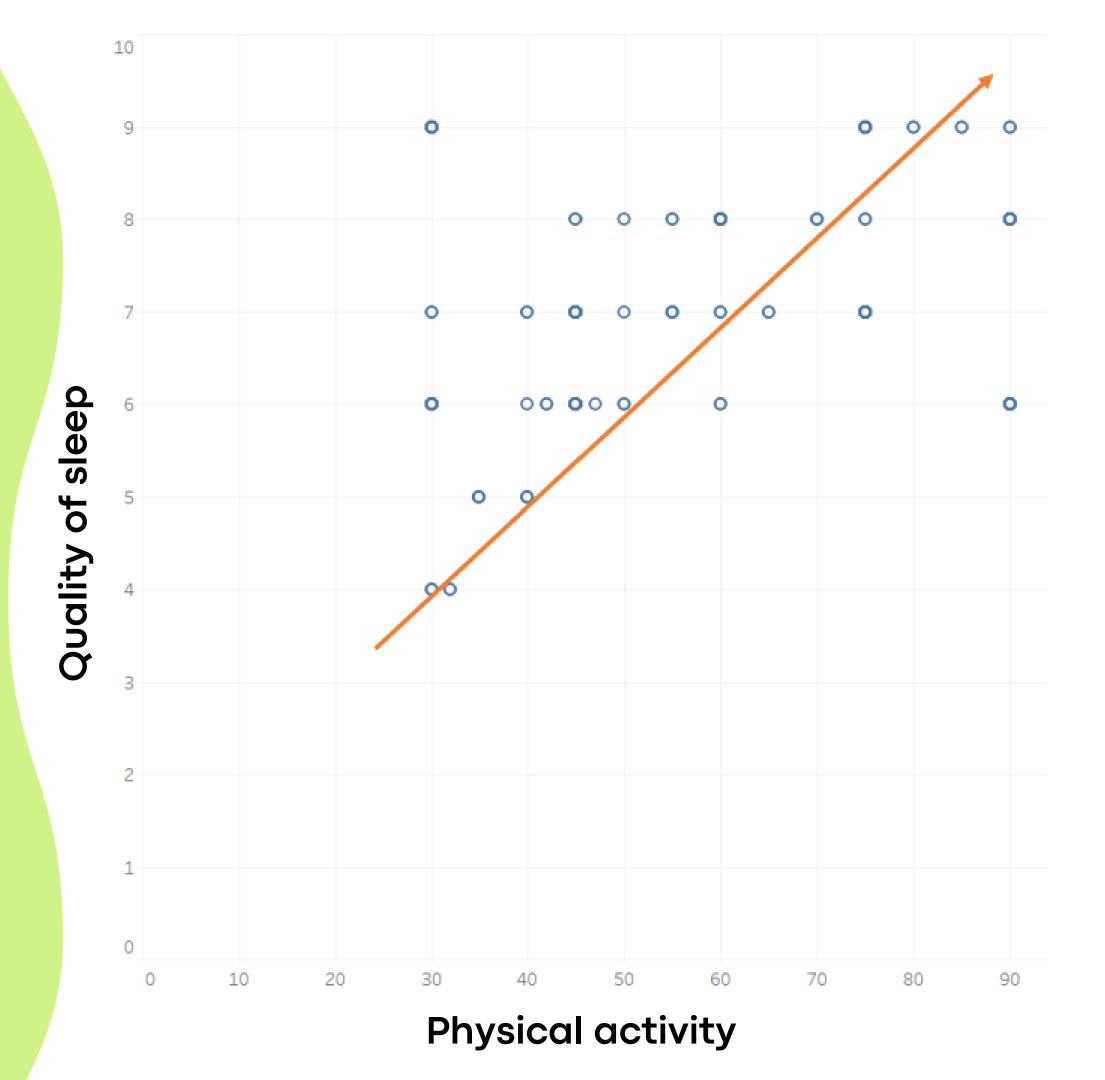
Negative correlation





Positive correlation





Conclusions

- 1 Hypothesis proven
- Have and active and healthy lifestyle

